

# **Inspection Report**

## Stormwater Wetland or Wet Pond

*Submitted to*

### **CITY OF DURHAM**

Stormwater Services Division, Department of Public Works  
101 City Hall Plaza, Durham, NC 27701  
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[www.durhamnc.gov](http://www.durhamnc.gov)

Date of Inspection	
Name of Certifier (BMC)	
Facility Name	
City of Durham Facility ID #	
Annual Anniversary Month	
Maintenance Access Address	
ADC Map Grid (Optional)	
GIS Coordinates (Optional)	
City of Durham PIN	
River Basin (Neuse or Cape Fear)	
Water Supply Overlay	

Adopted City of Durham Design, Inspection, and Maintenance References:

1. *City of Durham Reference Guide for Development*
2. *Owner's Guide to the Maintenance of BMPs Constructed in the City of Durham*
3. *Determining BMP Inspection and Maintenance Costs for Structural BMPs in North Carolina*, Dr. Bill Hunt, NCSU
4. *Stormwater Best Management Practices Manual*, July 2007, NC Division of Water Quality

### **Inspection Items**

(Please refer to the photographic journal of the inspection and to any supplemental [and facility specific] items attached to this inspection report.)

#### **Dam Embankment**

check

- ☐ No additional maintenance is recommended at this time.
- ☐ At the time of the inspection, the dam was over grown. The dam should be mowed so that a more thorough inspection can be provided.

Comments (**highlighted**):

- ☐ Bare areas were noted on the dam. These areas should be planted with grass.

Comments:

- ☐ Trees were noted on the dam. These trees should be removed and replaced with grass.

Comments:

- ☐ Shrubbery and other types of landscaping were noted on the dam. This material should be removed and replaced with grass.

Comments:

- ☐ The compaction of the dam, in the area around the riser and the connection of the principal spillway pipe to the riser, seemed inadequate (e.g., the dam provided little resistance to soil probing). This condition should be monitored as it may lead to piping or excessive settlement.

Comments:

- ☐ Piping (loss of soil) around the riser/principal spillway pipe was noted. These areas should be repaired.

Comments:

- ☐ Erosion/sloughing was noted on the dam. These areas should be repaired.

Comments:

- ☐ Areas of slope slippage, bulging, and/or excessive settlement were noted on the dam. These areas should be repaired.

Comments:

- ☐ Fractures were noted in the dam. These areas should be repaired.

Comments:

- ☐ Animal burrows were noted in the dam. These burrow holes should be filled in.

Comments:

#### Emergency Spillway (Separate Channel)

- ☐ No additional maintenance is recommended at this time.
- ☐ At the time of the inspection, the emergency spillway was over grown. The spillway should be mowed so that a more thorough inspection can be provided.

- ☐ It appears that the emergency spillway was not installed in accordance with the approved construction drawings. The spillway should be installed.

Comments:

- ☐ It appears that the emergency spillway was installed in “fill.” The spillway should be armored with a mowable turf reinforcement material (i.e., pyramat, articulated concrete block, etc.). Riprap is not considered an acceptable armoring material for emergency spillways.

Comments:

- ☐ Bare areas were noted on the emergency spillway. These areas should be planted with grass.

Comments:

- ☐ Trees were noted on the emergency Spillway. These trees should be removed and replaced with grass.

Comments:

- ☐ Shrubbery and other types of landscaping were noted on the emergency spillway. This material should be removed and replaced with grass.

Comments:

- ☐ Erosion was noted on the emergency spillway. These areas should be repaired.

Comments:

- ☐ Additional items/comments:

#### Riser

- ☐ No additional maintenance is recommended at this time.
- ☐ The normal pool orifice/inverted siphon is blocked. This blockage should be removed.

Comments:

- ☐ The riser is filled with excess material (debris, trash, rock, etc.). This material should be removed. A top trashrack is/is not recommended [disregard comment if a trashrack is already present].

Comments:

- ☐ The top trashrack/anti-vortex device is damaged. The trashrack/anti-vortex device should be repaired or replaced.

Comments:

- ☐ The riser is damaged/deteriorated. The riser should be repaired or replaced.

Comments:

- ☐ The normal pool appears to be low. The low-level release gate/valve may be leaking. This leak should be repaired. Note: It is recommended that all low-level release facilities be exercised at least once every two years.

Comments:

- ☐ Additional items/comments:

#### Principal Spillway Pipe (PSP)

- ☐ No additional maintenance is recommended at this time.
- ☐ The PSP is blocked. The blockage should be removed.

Comments:

- ☐ One or more joints of the PSP are leaking.

Comments:

- ☐ One or more sections of pipe have settled to a point where the integrity of the dam may be threatened. These sections of pipe may need to be replaced.

Comments:

- ☐ Additional items/comments:

#### Outfall

- ☐ No additional maintenance is recommended at this time.
- ☐ The outfall structure is undermined and/or is rusting/deteriorating. This structure should be repaired or replaced.

Comments:

- ☐ The outfall structure has separated from the PSP by more than three inches. This structure should be reattached to the PSP.

Comments:

- ☐ The outfall area is eroding. The outfall area should be repaired and stabilized with additional riprap (e.g., irregularly shaped stone) or a permanent soil liner (i.e., turf reinforcing mat, articulated concrete block, etc.).

Comments:

- ☐ The outfall area is blocked. This blockage should be removed.

Comments:

- ☐ Additional items/comments:

#### Impoundment Area

- ☐ No additional maintenance is recommended at this time.
- ☐ The forebay/sediment basin areas have silted in. These areas should be cleaned out.

Comments:

- ☐ The forebay berm has eroded. The berm should be repaired.

Comments:

- ☐ Bare areas were noted on the pond side slopes. These areas should be stabilized.

Comments:

- ☐ Eroded areas (rills, channels, etc.) were noted on the pond side slopes. These areas should be repaired and stabilized.

Comments:

- ☐ Additional items/comments:

#### Wetland and Riparian Plantings

- ☐ No additional maintenance is recommended at this time.
- ☐ It appears that some of the plantings installed during construction may have died, did not colonize as intended, and/or have been overtaken by invasive plant species. This condition needs to be corrected.

Comments:

- ☐ Additional items/comments:

Other Maintenance Items

**Summary List of Remedial Items to be Completed for Certification**

**Professional Execution**

Name (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Name (Printed): \_\_\_\_\_

BMC #: \_\_\_\_\_

NCPE or NCRLA Seal: